



**MATERIAL SAFETY DATA SHEET**

March 2009

**NORMITE V™**

**SECTION I – MATERIAL IDENTIFICATION AND USE**

**Product Name**      **BTO Number**      **Field of Use**  
 Normite V™      246110000      Water-Resistant Commercial Blasting Agent  
 (Non Cap-Sensitive Explosive)

**Manufacturers Name**      **Manufacturers Address**  
 Nordex Explosive Ltd.      (Dane, Ontario) P.O. Box 790 Kirkland Lake, Ontario, Canada  
 P2N 3K4

**Emergency Telephone**      **Business Telephone**      **Business Fax**  
 705-642-3265      705-642-3265      705-642-3266  
 705-668-0429  
 705-668-0439

**SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL**

Chemical Name	CAS#	%w/w	Exposure Limits in Air					
			ACGIH		OSHA			OTHER
			TLV mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	PEL mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	IDLH mg/m <sup>3</sup>	
Mineral Oil	8042-47-5	1-10	NE	NE	NE	NE	NE	NE
Ammonium Nitrate Solution	6484-5-2	Balance	NE	NE	NE	NE	NE	NE
Sensitizers	NA	0-10	NE	NE	NE	NE	NE	NE
Polyoletin Amino-Ester Salt	67762-77-0	1-5	NE	NE	NE	NE	NE	NE

**SECTION III – PHYSICAL DATA FOR MATERIAL**

Physical, Odour & Appearance	Density	Solubility	PH
This material is an oily prilled (small spherical particulate) material paste. Color can vary due to sensitizers.	1.24 gr/cc		

**SECTION IV – FIRE AND EXPLOSION HAZARD OF THE MATERIAL**

Flash Point - °C	Auto-Ignition Temperature - °C	Flammable Limits (in air by volume - %)
Not Applicable	Not Applicable	Not Applicable



**Unusual Fire and Explosion Hazards:**

May explode when subjected to fire or shock, especially when confined and in large quantities.

<b>Explosion Sensitivity to Mechanical Impact</b>	Not Sensitive
<b>Explosion Sensitivity to Static Discharge</b>	Not Sensitive

**Special Fire-Fighting Procedures:**

**DO NOT FIGHT FIRES INVOLVING EXPLOSIVE MATERIALS. DO NOT FIGHT FIRES WHICH INVOLVE CONTAINERS OF THIS PRODUCT.** If fire occurs, wear Self-Contained Breathing Apparatus. Withdraw from area and let fire burn. Remove all persons from the vicinity of the scene.

**SECTION V – REACTIVITY DATA**

**Chemical Stability**

Stable under normal environmental conditions.

Blasting Cap Sensitivity Test	No Detonation
Impact Sensitivity Test	Not Sensitive
Water Resistance	Not dissolved by water

**Materials with which Material is Incompatible**

This material is not compatible with some powdered metals, strong reducing agents, strong acids and flammable materials. No reaction with aluminum or stainless steel.

**Hazardous Polymerization** Will not occur

**SECTION VI – TOXICOLOGICAL PROPERTIES OF THE MATERIAL**

<b>Symptoms of Over Exposure by Route of Exposure</b>	This product is not expected to cause acute or chronic health effects under conditions of foreseeable use. Extended skin contact may cause very mild irritation that will quickly clear after the exposure ceases.
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<b>Inhalation</b>	This product is not likely to cause inhalation exposure.
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<b>Contact with Skin or Eyes</b>	Contact with the skin or eyes may cause irritation that will quickly be relieved upon rinsing the affected area.
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<b>Skin Absorption</b>	There is no evidence that this material absorbs through the skin.
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<b>Ingestion</b>	Ingestion is not anticipated to be a significant route of exposure. If ingestion occurs, there may be mild gastric distress that will be relieved as the material passes through the body. Symptoms of
<b>Ingestion - continued</b>	



gastrointestinal distress can include: stomach ache, nausea, vomiting, diarrhea, and an increase in urination.

**Injection**

Injection is not likely to occur, but may cause mild local irritation.

**Effect of ACUTE Exposure**

No acute effects are likely to occur after exposure to this product; however contact may lead to irritation of the affected tissue.

**Effect of CHRONIC Exposure**

No chronic health effects have been reported for this chemical; long-term exposure effects would be similar to those for acute exposure.

**Toxicity Data**

No toxicity data is available for this product. The following toxicity information is available for the components of this product.

**Ammonium Nitrate**  
LD<sub>50</sub> (oral, rat) > 5000 mg/kg

**Polyolefin Amino-Ester Salt**  
LD<sub>50</sub> (oral, rat) > 4820 mg/kg

**Mineral Oil**  
None available

**Suspected Cancer Agent**

The product's ingredients are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA. None of these components are designated as human carcinogens.

**Irritancy of Product**

This product may be irritating to contaminated tissue.

**Sensitization to the Product**

No component of this product is known to be a sensitizing agent.

**Reproductive Toxicity Information**

Listed below is information concerning the effects of this product and its component on the human reproductive system.

Mutagenicity: This product is not expected to have mutagenic effects in humans.

Teratogenicity: This product is not expected to have teratogenic effects in humans.

Reproductive Toxicity: This product is not expected to have adverse reproductive effects in humans.

A mutagen is a chemical that causes permanent changes to the genetic material (DNA) such that the changes will propagate through generational lines. A teratogen is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance that interferes in any way with reproductive process.

**Medical Conditions Aggravated by Exposure**

No medical conditions are reported to be aggravated by exposure to this product.



**Recommendations to Physicians**                      Treat symptoms.

**SECTION VII – PREVENTIVE MEASURES**

<b>Hand Protection</b>	Use appropriate gloves. Nitrile or neoprene gloves are adequate with the material. Check gloves for leaks. Wash hands after removing gloves.
<b>Respiratory Protection</b>	No respiratory protection should be needed when using this product. Use Self-Contained Breathing Apparatus during emergency response procedures.
<b>Eye Protection</b>	Splash goggles or safety glasses should be worn whenever handling this product.
<b>Body Protection</b>	Coveralls, apron or other body protection appropriate for the task.
<b>Ventilation and Engineering Controls</b>	Use with adequate ventilation. Use a mechanical fan or vent are to outside.
<b>Other</b>	Follow the Explosive Act & Department of Labour
<b>Leak and Spill Procedure</b>	Sweep or shovel (non sparking shovel) up and dispose in a blast hole, <b>do not burn</b> .
<b>Waste Disposal</b>	Use in blast
<b>Handling Procedures and Equipment</b>	Refer to Natural Resources Canada – Explosives Regulatory Division
<b>Storage Requirements</b>	Store only in an Approved & Licensed High Explosives Magazine
<b>Special Shipping Information</b>	UN0332 1.5D Explosive Packing Group II Blasting Type B – permit required from transportation with proper placards displayed on vehicle.

**SECTION VIII – FIRST AID MEASURES**

<b>Skin Contact</b>	Decontaminate with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes.
<b>Eye Contact</b>	Open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. <b>Minimum</b> flushing is for <b>15 minutes</b> .



**Inhalation**

Remove victim to fresh air and use artificial respiration to support vital functions.

**Ingestion**

CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

Victims of chemical exposure and all rescuers must be taken for medical attention. Take copy of label and MSDS to physician or health professional with victim.

**SECTION IX – DATE OF M.S.D.S. (not a Technical Bulletin)**

**Prepared By**

Nordex Explosives Ltd.

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